# Missouri Assessment Program Spring 2004

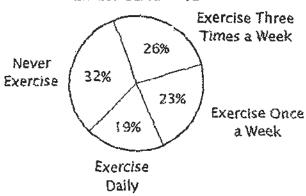
## **Mathematics**

**Anchor Pages for Released Items** 

Grade 10

As part of the project, the class surveyed the exercise habits of 600 pennla. The circle graph below shows the results of the survey.

**EXERCISE HABITS** 



Of the 600 people who completed the survey, how many exercise at least once a week? Provide the work that shows how you arrived at your answer.

#### 000101

#### 10A-1-9-1

Missouri Math Operational 2004

Grade 10

Session 1 Item 9

Score: 2 Anchor

>Correct process

>Correct answer

**9** As part of the project, the class surveyed the exercise habits of 600 people. The circle graph below shows the results of the survey.

**EXERCISE HABITS** 



Of the 600 people who completed the survey, how many exercise at *least* once a week? Provide the work that shows how you arrived at your answer.

408

600 -32%

#### 000102

#### 10A-1-9-2

Missouri Math Operational 2004

Grade 10

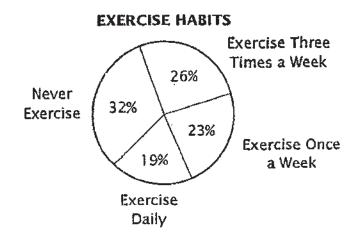
Session 1 Item 9

Score: 1 Anchor

>Incomplete process

>Correct answer

9 As part of the project, the class surveyed the exercise habits of 600 people. The circle graph below shows the results of the survey.



Of the 600 people who completed the survey, how many exercise at least once a week? Provide the work that shows how you arrived at your answer.

#### 000103

#### 10A-1-9-3

Missouri Math Operational 2004

Grade 10

Session 1 Item 9

Score: 0 Anchor

>Incorrect process

>Incorrect answer

A landscaper is counting the plants in five different areas of a garden. The chart below shows the landscaper's findings.

PETUNIAS FOUND IN GARDEN

Area	Total Number of Plants in Area	Findings	Number of Petunias in Area
Α	30	$\frac{1}{6}$ of the plants are petunias	5
В	20	$\frac{7}{10}$ of the plants are petunias	14
С	50	30% of the plants are petunias	15
D	40	0.40 of the plants are petunias	160
£	30	$\frac{5}{15}$ of the plants are petunias	ID

In the chart, record the number of petunias in each area. Which area has the largest number of petunias? In the space below, provide the work that shows how you arrived at your answer.

Area D has the largest number of petunies

$$A = 30(16) = 5$$
 $D = 20(70) = 14$ 
 $C = 50(30) = 15$ 
 $D = 40(.40) = 10$ 
 $F = 30(5)(5) = 10$ 

### 10A-2-8-1

Missouri Math Operational 2004

Grade 10

Session 2 Item 8

Score: 2 Anchor

>Correct process

>Correct answer

#### 010201

PETUNIAS FOUND IN GARDEN

Area	Total Number of Plants in Area	Findings	Number of Petunias in Area
A	30	$\frac{1}{6}$ of the plants are petunias	5
В	20	$\frac{7}{10}$ of the plants are petunias	14
С	50	30% of the plants are petunias	15
D	40	0.40 of the plants are petunias	10
E ·	30	$\frac{5}{15}$ of the plants are petunias	10

In the chart, record the number of petunias in each area. Which area has the largest number of petunias? In the space below, provide the work that shows how you arrived at your answer.

area 1) has the largest number of petunias

40 16.0

10A-2-8-2

Missouri Math Operational 2004

Grade 10

Session 2 Item 8

Score: 1 Anchor

>Incomplete process

>Correct answer

010249

#### PETUNIAS FOUND IN GARDEN

Area	Total Number of Plants in Area	Findings	Number of Perunias in Area
Α	30	$\frac{1}{6}$ of the plants are petunias	180
В	20	$\frac{7}{10}$ of the plants are petunias	7500
C	50	30% of the plants are petunias	.000
Ð	40	0.40 of the plants are petunias	٠٥١
E	30	$\frac{5}{15}$ of the plants are petunias	90

In the chart, record the number of petunias in each area. Which area has the largest number of petunias? In the space below, provide the work that shows how you arrived "I divided the fiderigs of peternias by the total humber of Plants in the area at your answer.

10-2-8-3

Missouri Math Operational 2004

Grade 10

Session 2 Item 8

Score: 0 Anchor

>Incorrect process

>No answer indicated